

INTERNATIONAL SEARCH REPORT

Intern. and Application No.

PCT/US 99/14851

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01M2/04 H01M2/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data bases consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 490 867 A (KOZAWA HIDEAKI ET AL) 13 February 1996 (1996-02-13) figure 2 column 2, line 34 - column 3, line 3 column 3, line 9 - line 16	1, 10
A	PATENT ABSTRACTS OF JAPAN vol. 013, no. 016 (E-703), 13 January 1989 (1989-01-13) & JP 63 221552 A (TOSHIBA BATTERY CO LTD), 14 September 1988 (1988-09-14) abstract	1, 10
A	WO 92 04738 A (DURACELL INC) 19 March 1992 (1992-03-19) page 4, paragraph 5 - page 5, paragraph 1 figure 1	1
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- "A" document defining the general state of the art which is not considered to be of particular relevance
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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- "A" document member of the same patent family

Date of the actual completion of the international search

3 November 1999

Date of mailing of the international search report

10/11/1999

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 097 356 A (UNION CARBIDE CORP) 4 January 1984 (1984-01-04) page 5, line 29 - page 6, line 11 page 16, line 1 - line 2 figure 1	1
A	US 3 069 489 A (R. CARMICHAEL ET AL) 18 December 1962 (1962-12-18) cited in the application column 3, line 45 - line 61	1

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Information on patent family members

Inter. Application No

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